

Calibration with Machine Learning in Radio Cosmology

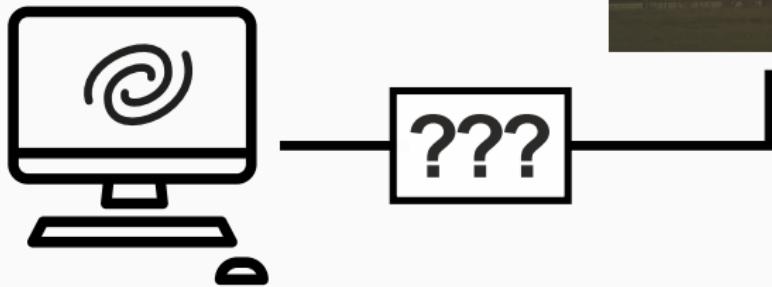
Samuel Alan Kossoff Leeney, Harry Bevins, Will Handley, Eloy de Lera Acedo, Jiacong Zhu, Kaan Artuc, Daniel Molnar

14 November 2023

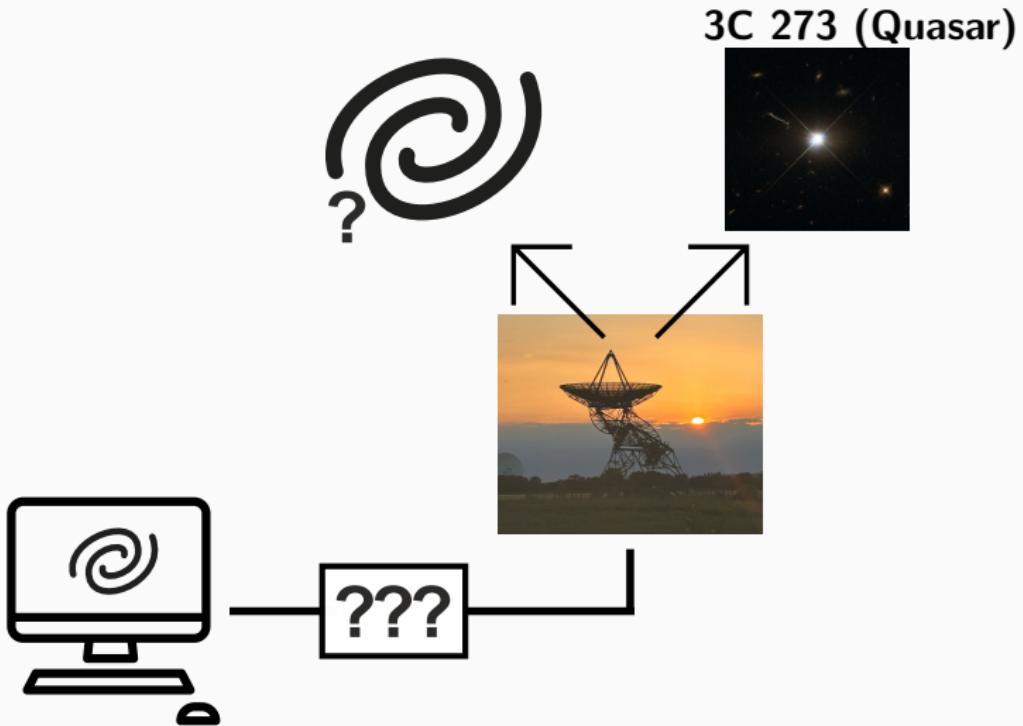
Machine Learning for Astronomy 2024



What is calibration in Astronomy?



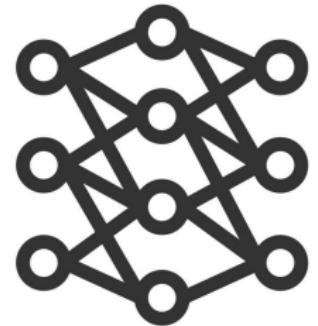
How to calibrate?



Co-authors: Harry Bevins, Will Handley, Eloy de Lera Acedo, Jiacong Zhu, Kaan Artuc, Daniel Molnar

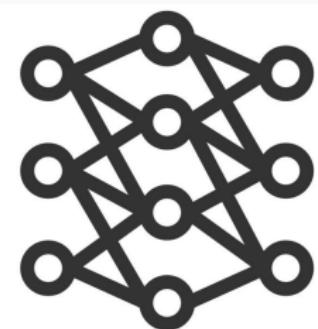
Why is machine learning helpful?

Train

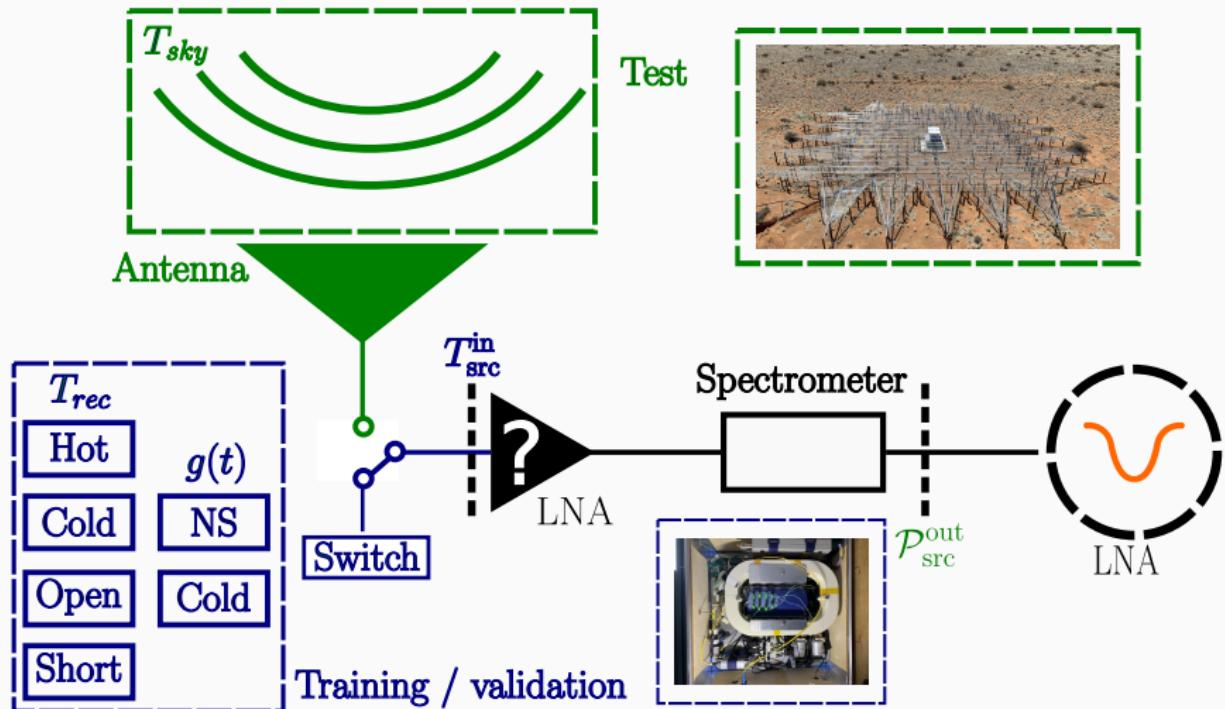


Predict

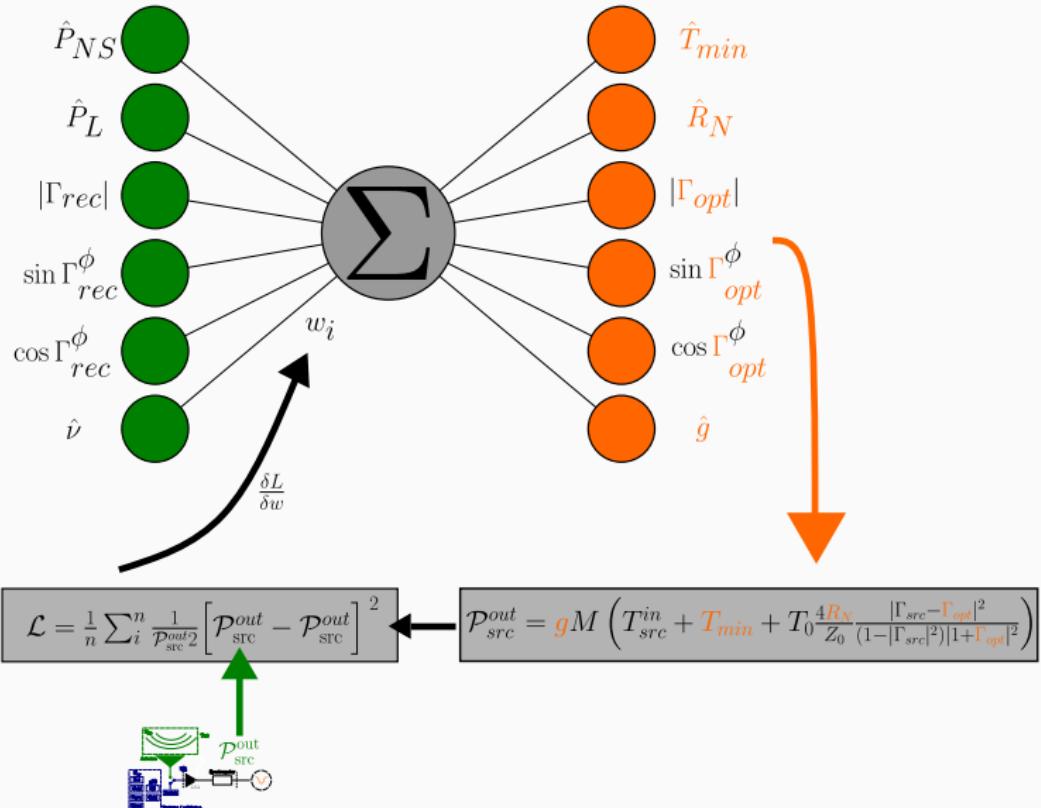
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Machine learning for radiometer calibration in global 21cm cosmology



Machine learning for radiometer calibration in global 21cm cosmology



Machine learning for radiometer calibration in global 21cm cosmology

